

SAMSUNG



DVD PLAYER
DVD-N501

Precautions



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates "dangerous voltage" inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

CAUTION: DVD PLAYERS USE AN INVISIBLE LASER BEAM WHICH CAN CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE PLAYER CORRECTLY AS INSTRUCTED.

CAUTIONS

Caution: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

Attention: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect this equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This class B digital apparatus meets all requirements of the Canadian Interference -- Causing Equipment Regulations

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

WARNING

To reduce the risk of fire or shock hazard, do not expose this DVD player to rain or moisture.

CAUTION

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Note:

- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, the DVD player cannot play the disc.
- This device is protected by U.S. patent numbers 4,631,603, 4,577,216 and 4,819,098 and other intellectual property rights. The use of Macrovision's copy protection technology in the device must be authorized by Macrovision and is intended for home and other limited pay-per-view uses only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited.

Handling Cautions

- Before connecting other components to this player, be sure to turn them all off.
- Do not move the player while a disc is being played, or the disc may be scratched or broken, and the player's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the player.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- Be sure to remove the disc and turn off the player after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the player for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.

- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.

- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

About Discs

Discs you can play



Digital video discs

5" and 3 1/2", single or double sided, single or dual layer. DVDs are high density optical discs on which high quality picture and audio are recorded.



Video CDs

5" and 3 1/2" (with or without playback control).



Audio CDs

5" and 3 1/2"



NUON interactive DVD software

Disc Functions

Functions and information available on the DVDs (titles, chapters, subtitles, ratings, multi angles and more) may differ from disc to disc.

- When  appears on screen, it indicates an invalid button press.

Discs that cannot be played

CD-I, CD-ROM, DVD-ROM, DVD-RAM discs cannot be played in this unit.

CD-G can play audio only, not graphics.



Region code

Your DVD player is designed and manufactured to respond to the region management information that is recorded on a DVD disc.

COPY PROTECTION

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by the Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by the Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

DVD-N501



General Features

Excellent Sound

Dolby Digital, a technology developed by Dolby Laboratories provides crystal clear sound reproduction.

Screen

Video with MPEG-2 compression technology. Both regular and widescreen(16:9) pictures can be viewed.

Slow Motion

An important scene can be viewed in slow motion.

Lock

The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc.

Various On-Screen Menu Functions

You can select various languages(Audio/Subtitle) and screen angles while enjoying movies.

Repeat

You can repeat a song or movie simply by pressing the REPEAT button.

MP3

This unit can play discs created from MP3 files.

HDCD

This unit can play HDCD(High Definition Compact Discs). These discs have a higher sampling rate than regular CDs which contributes to better sound.

NOTE

- * To ensure proper playback of discs burned from MP3 files, make sure the files have been recorded at a bit rate of at least 128kbps.
- * If there are any gaps (blank data) on multi-session discs, you may experience playback problems
- * On discs that are recorded with a Variable Bit Rate(VBR), e.g. from 32 to 320 kbps, the sound may cut in and out.
- * HDCD®, High Definition Compatible Digital ® and Pacific Microsonics™ are either registered trademarks or trademarks of Pacific Microsonics, Inc. in the United States and/or other countries. HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,800, 5,864,311, 5,872,531, and in Australia: 669114. Other patents pending.

Disc Markings



• Play Region Number

NTSC

• NTSC broadcast system in U.S.A, Canada, Korea, Japan, etc.



• Dolby Digital disc

STEREO

• Stereo disc

DIGITAL SOUND

• Digital Audio disc



• DTS disc

Play Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is described on the rear panel of the player.

Before You Start

Accessories



Remote Control



Batteries for
Remote Control
(AA Size)



Video/Audio Cable



User's Manual

Install Batteries in the Remote

- 1 Open the battery cover on the back of the remote.
- 2 Insert two AA batteries. Make sure that the polarities (+ and -) are aligned correctly.
- 3 Replace the battery cover.

If remote doesn't operate properly:

- Check the polarity + - of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

TABLE OF CONTENTS

Description-Front Panel	8
Description-Rear Panel	9
Tour of the Remote Control	10

SETUP

Choosing a Connection	12
• Connection to an Audio System	12
• Connection to a TV	13

CONNECTIONS

Using the Menu	14
Setting Up the Language Features	15
Setting Up the Movie	17
Setting Up the Audio	18
Setting Up the Video	19
Setting Up the Lock	20
Playing a Disc	21
Search & Skip	23
Repeat A-B & 3D Sound	24

Bookmark	25
MediaMacro™ Zoom & Pan	26
ActionCapture™ Strobe	27
AngleView™ Display & Screen Fit	28
Selecting the Audio Language	29
Selecting the Subtitle Language	30
Display	31
Digest Play	32

PLAY

V.L.M. & Gaming	33
MP3 play	34

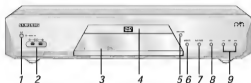
SPECIALS

Remote Control Setting	35
Troubleshooting Guide	36

Specifications	37
Warranty	39

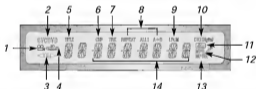
REFERENCE

Description-Front Panel



Front Panel Controls

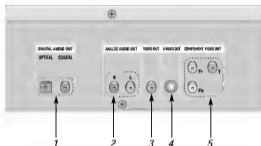
- | | |
|---|--|
| <p>1 STANDBY/ON
• When the unit is first plugged in, this indicator lights.</p> <p>2 NUON PORTS
• Allow you to plug in a joystick or other peripherals.</p> <p>3 DISPLAY
• Operation indicators are displayed here.</p> <p>4 DISC TRAY
• Press OPEN/CLOSE to open and close the disc tray</p> | <p>5 OPEN/CLOSE
• Press to open and close the disc tray</p> <p>6 SCREEN FIT
• Allows you to eliminate the black bars of the screen and fill any TV screen completely with the picture.</p> <p>7 PLAY/PAUSE
• Begin or pause disc play.</p> <p>8 STOP
• Stops disc play.</p> <p>9 SKIP
• Use to skip chapters or tracks.</p> |
|---|--|



Front Panel Display

- | | |
|---|--|
| <p>1 Angle indicator. You can select multiple angles of a scene recorded by different cameras.</p> <p>2 Disc type indicators</p> <p>3 Reverse play / Pause / Forward play</p> <p>4 Lights when 3D surround is turned on.</p> <p>5 Title number</p> <p>6 Chapter number.</p> <p>7 Video/Audio CD : Track number</p> <p>8 Repeat play mode</p> <p>9 Linear PCM audio output</p> <p>10 Dolby Digital Audio output</p> <p>11 DTS (Digital Theater System) output</p> | <p>12 MP3 indicator</p> <p>13 MPEG-2 Audio output</p> <p>14 Displays various messages concerning operations such as PLAY, STOP, LOAD, ...</p> <p>no DISC : No disc loaded</p> <p>OPEN : The disc tray is open.</p> <p>LOAD : Player is loading disc information.</p> <p>HDCCD : When an HDCCD[®] recording is detected, the letters "HDCCD" will flash for about 10 seconds at the beginning of every track.</p> |
|---|--|

Description-Rear Panel



Rear Panel Jacks

1 DIGITAL AUDIO OUT JACK

- Use an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver. Use to connect to an A/V Amplifier that contains a Dolby Digital decoder or DTS decoder.

2 ANALOG AUDIO JACKS

- Connect to the Audio input jacks of your television, audio/video receiver, or VCR.

3 VIDEO OUT JACK

- Use a video cable to connect to the Video input jack on your television.

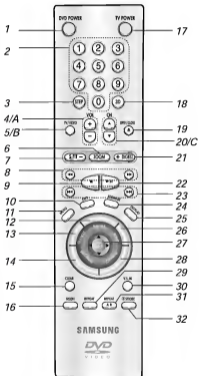
4 S-VIDEO OUT JACK

- Use the S-Video cable to connect this jack to the S-Video jack on your television for a higher quality picture.

5 COMPONENT VIDEO OUT JACKS



- Use these jacks if you have a TV with Component Video in jacks. These jacks provide Pr, Pb and Y video. Along with S-Video, Component Video provides the best picture quality

Tour of the Remote Control



Tour of the Remote Control

DVD Function Buttons

- 1 DVD POWER Button
- 2 NUMBER Buttons
- 3 STEP Button
 - Advances play one frame at a time.
- 4 VOLUME Button
- 5 TV/VIDEO Button
- 6 ZOOM Button
- 7 S.FIT Button(ZOOM OUT)
- 8 SEARCH Buttons
 - Allows you to search forward/backward through a disc.
- 9 STOP Button
- 10 EXIT Button
 - Returns to a previous menu.
- 11 MENU Button
 - Brings up the Disc menu.
- 12 SUBTITLE Button
- 13  ANGLE
 - Use to access multiple angles on a DVD.
- 14 DISC MENU Button
- 15 CLEAR Button
 - Use to remove pop-up menus or status displays from the screen.
- 16 NUON Button
 - Pressing this button brings up a special NUON menu. When a DVD disc has enhanced NUON content, you can navigate and view this extra content by going to this menu first.
- 17 TV POWER Button
- 18 3D SOUND Button
- 19 OPEN/CLOSE Button
- 20 CHANNEL Button
- 21 DIGEST Button(ZOOM IN)
- 22 PLAY/PAUSE Button
 - Begin/Pause disc play
- 23 SKIP Button
 - Use to skip the title, chapter, or track.
- 24 BOOKMARK Button
 - Use to memorize scenes for replay
- 25 DISPLAY Button
 - Use to see the status of various settings.
- 26 AUDIO Button
 - Use this button to access various audio functions on a disc.
- 27 ENTER/DIRECTION Button (UP/DOWN or LEFT/RIGHT Button)
 - This button functions as a toggle switch.
- 28 TOP MENU Button
 - Takes you to the menu on the DVD disc or CD/VCD.
- 29 REPEAT Button
 - Allows you to repeat play a title, chapter, track, or disc.
- 30 V.L.M. Button (Virtual Light Machine)
- 31 REPEAT A-B Button
 - Use to mark a segment to repeat between A and B.
- 32  STROBE Button
 - Shows snapshots of nine successive frames of the movie as it plays. You may pause and select one frame.

TV Function Buttons

- A VOLUME +/- Buttons C CHANNEL UP/DOWN Buttons
- B TV/VIDEO Selection Button

Choosing a Connection

The following show examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connecting the DVD Player

- Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.
- Refer to user's manual of the components you are connecting for more information on those particular components.

Connection to an Audio System

Method 1



2ch Amplifier
Audio Input Jacks



Analog Audio Out

Method 2



Dolby Digital Decoder
Digital Audio Input Jacks



Digital Audio Out

AUDIO
SYSTEM

DVD
PLAYER

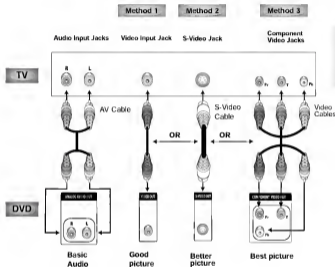
Connection to an Audio System

- **Method 1** DVD Player + 2CH Stereo Amplifier, Dolby Pro Logic Decoder
- **Method 2** DVD Player + Amplifier with Dolby Digital Decoder/DTS Decoder

Choosing a Connection

Connection to a TV

TV (Normal, Widescreen, Projection, etc..)



Connection to a TV (For Video)

- Method 1 DVD Player + TV with Video Input Jack
- Method 2 DVD Player + TV with S-Video Input Jack
- Method 3 DVD Player + TV with Component Video Jacks

Using the Menu

The Menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental control, even adjust the player to the type of television screen you have.

1 Press the MENU button on the remote.

• Language

- Setup of the Menu Language.
The language in which you would like to view your SAMSUNG DVD menus.

• Movie

- Setup of the Movie.

• Audio

- Setup of the Audio.

• Video

- Setup of the Video.

• Lock

- Setup of the Lock.
- Use to deny playback of discs or scenes with objectionable material.
(Must be supported by the disc.)

• Help

- This menu describes the terms that are displayed on the DVD player.



2 Use the UP/DOWN buttons on the remote to access the different features.

3 Press the ENTER button to access the sub features.

To make the menu screen disappear after setting up, press the MENU button again or the EXIT button twice.

NOTE

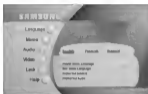
- Not all Menu selections will work - this is dependent on the DVD disc content. For example, the subtitle menu option will not have any effect on a disc that does not have subtitle support.
- Once each menu is selected, its submenus will appear on the right of the screen. Move the TOGGLE button to left, and the submenus that are displayed on the right of the screen will disappear.

Setting Up the Language Features

If you set the player menu, disc menu, audio and Subtitle language in advance, they will come up automatically every time you watch a movie.

Using the Player Menu Language

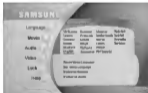
- 1 Press the MENU button.
- 2 Press the ENTER button.
- 3 Use the UP/DOWN buttons to select the Player Menu Language.
- 4 Press the ENTER button.
- 5 Use the LEFT/RIGHT buttons to select 'English'.
- 6 Press the ENTER button.
-English is selected and the screen returns to the language submenu.
- 7 Press the EXIT button twice or the MENU button, and the menu screen will disappear.



Using the Disc Menu Language

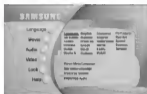
This function changes the text language on the disc menu screens.

- 1 Press the MENU button.
- 2 Press the ENTER button.
- 3 Use the UP/DOWN buttons to select the Disc Menu Language.
- 4 Press the ENTER button.
- 5 Use the LEFT/RIGHT buttons to select 'Language'.
- 6 Press the ENTER button.
- 7 Press the EXIT button twice or the MENU button, and the menu screen will disappear.



Setting Up the Language Features

Using the Preferred Subtitle



ex) Setting up in English.

NOTE

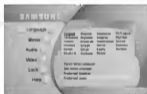
- If the selected language is not recorded on the disc, the original pre-recorded language is selected.

- 1 Press the MENU button.
- 2 Press the ENTER button.
- 3 Press the UP/DOWN buttons to select Preferred Subtitle.
- 4 Press the ENTER button.
- 5 Use the UP/DOWN or LEFT/RIGHT buttons to select 'English'.

- Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio preference.

- 6 Press the ENTER button.
 - English is selected and then the submenu of language menu returns.
- 7 Press the EXIT button twice or the MENU button, and the menu screen will disappear.

Using the Preferred Audio



ex) Setting up in English.

- 1 Press the MENU button.
- 2 Press the ENTER button.
- 3 Press the UP/DOWN buttons to select Preferred Audio.
- 4 Press the ENTER button.
- 5 Use the UP/DOWN or LEFT/RIGHT buttons to select 'English'.
 - Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in.
- 6 Press the ENTER button.
 - English is selected and then the submenu of language menu returns.
- 7 Press the EXIT button twice or the MENU button, and the menu screen will disappear.

Setting up the Movie

- 1 Press the MENU button.
- 2 Press the UP/DOWN buttons to select to Movie.
- 3 Press the ENTER button.
- 4 Use the NUMBER buttons to enter the desired Time, Title or Chapter.



ex) Setting up in English.

- Time

- Use to enter the time from which you want to start.

- Title

- Use to select a title number.
- A DVD may contain several different titles.
For example, if a disc contains four different movies, each might be considered a title.

- Chapter

- Use to select a chapter number.
- Each Title on a DVD can be divided into chapters (similar to tracks on an audio CD).

- Angle

•See page 28.

• Available Subtitle

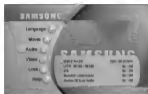
-See page 30.

• **Available Audio**

-See page 29.

- 5 Press the EXIT button twice or the MENU button, and the menu screen will disappear.

Setting Up the Audio



- 1 Press the MENU button.
- 2 Use the UP/DOWN buttons to select Audio. Press the ENTER button.
- 3 Use the UP/DOWN buttons to select the desired item. Press the ENTER button.
- 4 Use the LEFT/RIGHT button to select the desired item. Press the ENTER button.

• Digital Output

- PCM : Converts to PCM (2CH) 48KHz/16Bit audio.
Select PCM when using the Analog Audio Outputs.
- Bitstream : Converts to Dolby Digital Bitstream (5.1CH).
Select Bitstream when using the Digital Audio Output.

• LPCM 96 KHz - 48 KHz (ON/OFF)

- For discs recorded with 96 KHz Linear PCM, you must change 96KHz(Off) to 48KHz(On) for analog and digital output.
PCM won't be output when it is set to LPCM 96 KHz.

• DTS

- On : Outputs DTS Bitstream via digital output only. Select DTS when connecting to a DTS Decoder.
- Off : Doesn't output DTS signal.

• Dynamic Compression

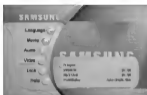
- On : To select dynamic compression.
- Off : To select the standard range.

• Analog 2X Scan Audio

- On : Turns analog 2X scan audio on.
2X Scan Audio does not work using the digital output.
- Off : Turns analog 2X scan audio off.

Setting Up the Video

- 1 Press the MENU button.
- 2 Use the UP/DOWN buttons to select Video, then press the ENTER button.
- 3 Use the UP/DOWN buttons to select the desired item. Press ENTER.



- 4 Use the LEFT/RIGHT button to select the desired item. Press the ENTER button.

• TV Aspect

Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio)

- Letter Box :

Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.

- Pan-Scan :

Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)

- Wide :

You can view the full 16:9 picture on your widescreen TV.

• Screen Fit

- You can view your picture either letter boxed(with bars), or stretch the picture to fit the screen.

• Black Level

- Adjusts the brightness of the screen.(On/Off)

• Front Display

Adjust the brightness of the unit's front panel display.

- Bright : Makes the Front Panel Display bright.
- Dim : Makes the Front Panel Display dim.
- Auto : Makes the Front Panel Display dim automatically when playing a DVD.

- 5 Press the EXIT button twice or the MENU button again, and the MENU screen will disappear.

Setting Up the Lock

The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

Setting the Rating Level



- 1 Press the MENU button.
- 2 Press the UP/DOWN buttons to select LOCK, then press the ENTER button.
- 3 Use the UP/DOWN buttons to select Enter Password.
- 4 Press the ENTER button and enter your 4-digit password by pressing the 0-9 button.
- 5 Use the UP/DOWN buttons to select Rating Level and press the ENTER button.
- 6 Use the UP/DOWN or LEFT/RIGHT buttons to choose a Rating Level, then press ENTER.
 - For example, if you choose Level 7, the disc which contains LEVEL 7 or 8 will now not play.
 - The default password is '9999'.
- 7 Press the EXIT button twice or the MENU button, and the menu screen will disappear.

NOTE

- To change your password, press the Up/Down buttons and select 'Change Password' from the LOCK menu.
- Changing password is possible only when the password has been entered.


Play

- 1 Press the OPEN/CLOSE button.
The STANDBY indicator light goes out and the tray opens.
- 2 Place a disc gently into the tray with the disc's label facing up.
- 3 Press the PLAY/PAUSE button to start play.
- 4 Press the STOP button to stop play.

RESUME function

When you stop disc play, the player remembers where you stopped, so when you press PLAY again, it will pick up where you left off (unless the disc is removed, the STOP button is pressed twice or the player is unplugged.).

NOTE

- If the player is left for 5 minutes in pause mode, it will stop.
- The power is automatically turned off after approximately 30 minutes have elapsed in the stop mode (auto power-off feature).
- If the player is left in stop mode for more than one minute without any user interaction, a screen saver will be activated.
- This  icon indicates an invalid button press.

Playing a Disc

Stop

Press the STOP button during play.

Remove

Press the OPEN/CLOSE button.

Pause

Press the PLAY/PAUSE or STEP button on the remote during play.

Pause

Press the PLAY/PAUSE or STEP button on the remote during play.

- Screen stops, no sound.
- To resume, press the PLAY/PAUSE button once again.

Step Motion (Except CD)

Press the STEP button on the remote during play.

- Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press PLAY/PAUSE to resume normal play.
(You can only perform step motion play in the forward direction.)

Slow Motion (Except CD)

Press the FWD or REV SEARCH button on the remote during PAUSE or STEP mode.

- By pressing or shutting, you can select slow motion playback for 1/2, 1/4 or 1/8 of normal speed.
- No sound is heard during slow mode..
- When playing a VCD, reverse slow motion playback will not work.

Searching a Chapter/Track

Searching is not restricted to within a "chapter" or "track".

Press the FWD or REV SEARCH button on the remote control during play.

- Press the REVERSE or FORWARD SEARCH button on the remote and press again to search at a faster speed(2X/4X/8X/16X/32X/64X/128X, in order) on the DVD.
- Press the REVERSE or FORWARD SEARCH button on the remote and press again to search at a faster speed(2X/4X/8X/16X/32X) on VCD and CD.
- To return to normal speed play, press the PLAY/ PAUSE button.

Skipping Chapter/ Tracks

The skip function allows you to "skip" from one chapter to another in the forward or reverse direction.

Press the NEXT SKIP or BACK SKIP button during play.

- When playing a DVD, if you press the NEXT SKIP button, it moves to the next chapter. If you press the BACK SKIP button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a VCD or a CD, if you press the NEXT SKIP button, it moves to the next track. If you press the BACK SKIP button, it moves to the the beginning of the track. One more press makes it move to the beginning of the previous track.

NOTE

- When in search mode (4X/8X/16X/32X/64X/128X) on a DVD or high-speed playback (4X/8X/16X/32X) on a VCD, no sound will be heard.
- Depending on the disc, audio may not be heard when a disc is in 2X playback mode.

Repeat A-B & 3D Sound

Repeat A-B

The Repeat A-B function lets you mark a segment to repeat between the beginning (A) and the end (B) of the segment you want to review.



- 1 Press the REPEAT A-B button at the beginning (A) of the segment you want to review.
- 2 Press the REPEAT A-B button again or the ENTER button at the end (B) of the segment you want to review.
- 3 Press the ENTER button to view the set segment A->B. Then, the segment will begin repeating.
- 4 To clear Repeat A-B, press the REPEAT A-B button again.

3D Sound

The simulated surround effect (SPATIALIZER N-2-2) depends on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect. This feature is useful when you are using the DVD player with a two channel stereo through the analog outputs. (Discs which are recorded with DTS will not work. When the Digital Output is set to Bitstream in the MENU, the 3D Sound function will not work.)



- 1 Press the 3D SOUND button on the remote. (Be sure the Digital Output is set to PCM.)
- 2 Use the UP/DOWN buttons to select 3D sound On/Off.

NOTE

- The Repeat A-B function works on the same title or track.
- If the title or track is completed before marking the end (B), the end of the title or track becomes B automatically.
- Depending on the disc, the Repeat A-B and 3D Sound functions may not work.
- 3D sound will not operate in V.L.M (Virtual Light Machine) mode (CD-DA, MP3, etc.)
- All the pop-up menus (except Repeat A-B) automatically disappear five seconds later.

The Bookmark function lets you select parts of a DVD or VCD so that you can quickly find the section at a later time.

During playback, press the BOOK-MARK button on the remote. A 'BOOKMARK' will be displayed.



To store a Bookmark

- 1 Use the LEFT/RIGHT button to move to the desired bookmark.
- 2 When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).
- 3 Press the BOOKMARK button to turn off the display.

To recall a Bookmarked scene

- 1 During playback, press the BOOKMARK button on the remote.
- 2 Use the LEFT/RIGHT button to select a marked scene.
- 3 Press the PLAY/PAUSE button to skip to the marked scene.

To clear a Bookmark

- 1 During playback, press the BOOKMARK button on the remote.
- 2 Use the LEFT/RIGHT button to select the bookmark number you want to delete.
- 3 Press the CLEAR button to delete a bookmark number. Press the BOOKMARK button to turn off display.

NOTE

- Up to three scenes may be marked at the same time.
- Depending on the disc, the Bookmark function may not work.

MediaMacro™ Zoom & Pan

MediaMacro™ Zoom & Pan

For DVDs, VCDs

This function allows complete control over what part of the picture you want to see. You can select any portion of the screen and magnify that portion up to 15 times.



Zoom In

- 1 Press the ZOOM button on the remote control, and the Zoom screen appears on the upper right corner of the screen.
- 2 Press the DIGEST and S-FIT buttons for Zoom IN/OUT.
- 3 Press the ZOOM button again to exit.



Zoom Out

NOTE

- Use the DIRECTION (UP/DOWN/LEFT/RIGHT) button to move the zoom picture.

ActionCapture™ Strobe

This unique strobe function takes snapshots of a continuous motion, then displays these snapshots in order. This is a useful for analyzing golf swings, a pianist's finger movements or even a pitcher's technique.

- 1 Press the P-STROBE button, and the screen will be divided into nine subscreens.
- 2 Press the PLAY button, and the current progressing subscreen is highlighted in yellow.
- 3 Use the TOGGLE (UP/DOWN/LEFT/RIGHT) button to move the highlight.
- 4 Press the ENTER button, and the highlighted subscreen becomes a still screen. To return to the P-strobe status, press the P-STROBE button.
- 5 Press the P-STROBE button again for normal play.



AngleView™ Display & Screen Fit

Using the @ ANGLE Button

The DVD-NS01 displays each angle in a portion of the screen, allowing you to select any angle at the touch of the remote.



Example) If there are 6 angles available

Press the **ANGLE** button to see if an 'ANGLE ()' mark is present in the upper right hand corner of the screen.

- 1 When an 'ANGLE' mark is shown, press the @ANGLE button.
- 2 Use the LEFT/RIGHT/UP/DOWN buttons to select the desired screen angle. Then press the ENTER button.

NOTE

- This function does not work when a DVD has not been recorded with a multi-camera angle system.

Screen Fit

Press the **SCREEN FIT** button on the remote or the front panel.



Press the **SCREEN FIT** (or **S-FIT**) button on remote control

- Allows you to eliminate the black bars in the top and bottom of the screen when a movie is playing in the Widescreen format(16:9).

NOTE

- Depending on the disc, the ActionCapture™ Strobe and Screen Fit functions may not work.

Selecting the Audio Language

You can select a desired language quickly and easily with the AUDIO button.

Using the AUDIO Button

- 1 Press the AUDIO button on the remote.
- 2 Use the UP/DOWN buttons to select the desired Audio language on a DVD.
 - The audio and subtitle languages are represented by abbreviations



NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 8 audio languages.
- **How to have the same audio language come up whenever you play a DVD;** Refer to "Setting Up the Language Features" on page 16.

Selecting the Subtitle Language

You can select a desired subtitle quickly and easily with the SUBTITLE button.

Using the SUBTITLE Button

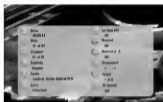


- 1 Press the SUBTITLE button.
- 2 Use the UP/DOWN buttons to select the desired subtitle language.
- 3 Press the ENTER button.
- 4 Use the UP/DOWN buttons to determine whether or not the subtitle will be displayed.
 - Initially, the subtitling will not appear on screen
 - The audio and subtitle languages are represented by abbreviations.
- 5 Press the EXIT button twice or the MENU button again, and the MENU screen will disappear.

NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 32 subtitle languages.

When the user presses the DISPLAY button while playing a DVD, he will see the display screen that shows the status of various settings.



1 Press the DISPLAY button.

- Time
- Title
- Chapter
- Subtitle
- Audio
- Lock
- Screen Fit
- Repeat
- Repeat A-B
- Bookmark
- Angle
- 3D Sound

NOTE

- You cannot change settings in the Display menu.
- Press either the DISPLAY button or EXIT button, and the Display screen disappears.

Digest Play

Digest Play



skip button

1 During play, press the DIGEST button.

- You'll see the 6 individual windows representing each of the chapters on the TV screen.
- When each window is displayed, the first 3 seconds of the chapter will be played.

2 Press the UP/DOWN/LEFT/RIGHT button to select the window you'd like to see, and press the ENTER button.

The disc will start playing from the window(chapter) you chose.

- Up to 6 windows(chapters) can be displayed on the screen at a time. Press the 'SKIP' button for the next 6 chapters if the movie has more than 6.

3 Press the EXIT button twice or the MENU button again, and the MENU screen will disappear.

NOTE

- 'DiGEST' may not operate depending on the disc in use.
- If the first chapter has no video data, then some of those six chapters may display a black screen.

V.L.M. & Gaming & NUON

Virtual Light Machine

1. When a CD-DA or MP3 disc is inserted, the V.L.M. screen is automatically displayed.
 2. To switch between the V.L.M. modes (see figure below), press the V.L.M. button, then the UP/DOWN buttons. Each V.L.M. mode has many settings that can be accessed by pressing the ENTER and UP/DOWN buttons.
- V.L.M. is a series of stunning and incredibly fun visual effects that are 'synchronized' to the music being played.



Manual Chill Out Techno
Rock/Pop Classical

Gaming

Your DVD-N501 player, in addition to playing DVD movies, VCD and CD-Audio discs, also supports a wide variety of NUON entertainment and edutainment software titles. NUON ports on the front panel allow you to plug in a wide variety of NUON peripherals. There are two NUON ports on the front panel of your DVD-N501 player.

To play a NUON game, you need to connect a NUON joystick to either of these ports (or connect multiple NUON joysticks - two supported by the ports on the front panel, multiple joystick support provided via a NUON splitter that connects to these NUON ports) and insert the NUON game disc in the tray. Depending on the game disc, you may not be able to hear audio via the digital audio out jack. If this occurs, you must hook up the analog outputs to hear NUON game disc audio.

- 1 Connect the joystick to one of the ports. Insert the game disc in the tray.
- 2 Press the PLAY/PAUSE button to start playback.

- Samsung DVD-N501 Joystick button Mapping for DVD, VCD, CDDA playback. Button mapping for NUON depends on the NUON disc. NUON button usage is different from disc to disc.
- Unplugging and replugging a joystick when playing a game may cause program disfunction. If this occurs, press POWER on the front panel to re-initialize the program.

NUON


The default setting of the DVD-N501 is pre-set for NUON mode.

This allows you to enjoy NUON enhanced movies which contain a variety of additional interactive features not available on a standard DVD player. When playing a regular DVD movie disc that is not NUON enhanced while the DVD-N501 is in NUON mode, your player's performance will not be affected. No set changes are required.

Therefore, we recommend that the default setting for your player be kept in NUON priority. Pressing the NUON button allows you to switch your player's default setting between NUON priority and DVD priority.

Remote Control Setting

The remote can also be set up to control most TVs. To program the remote, use the code that corresponds to your brand.

- 1 Turn on the TV.
- 2 Point the DVD's remote at the TV.
- 3 While holding the TV POWER button down, enter the code for your brand.
 For SAMSUNG_4 TVs
While holding down the TV button, enter 0 then and 1.
- 4 If the TV turns off, setup is complete.
Enter other codes of the same brand if the first code does not work.
- 5 To operate the TV, use the "TV Function Buttons" described on page 11.

TV Codes


TV Codes	
CODE	ISSIMO
38	SARLINO, L
39	SARLINO, L, LE LORE, PHILIP, FRANK, YOUNG LORE, OFA, MATT, SARINA, PRINCE, JESSICA, SHERIDAN
40	SARLIN, P. 1
41	SARLIN, P. 2
42	SARLIN, P. 3
43	SARLIN, P. 4
44	SARLIN, P. 5
45	SARLIN, P. 6
46	SARLIN, P. 7
47	SARLIN, P. 8
48	SARLIN, P. 9
49	SARLIN, P. 10
50	SARLIN, P. 11
51	SARLIN, P. 12
52	SARLIN, P. 13
53	SARLIN, P. 14
54	SARLIN, P. 15
55	SARLIN, P. 16
56	SARLIN, P. 17
57	SARLIN, P. 18
58	SARLIN, P. 19
59	SARLIN, P. 20
60	SARLIN, P. 21
61	SARLIN, P. 22
62	SARLIN, P. 23
63	SARLIN, P. 24
64	SARLIN, P. 25
65	SARLIN, P. 26
66	SARLIN, P. 27
67	SARLIN, P. 28
68	SARLIN, P. 29
69	SARLIN, P. 30
70	SARLIN, P. 31
71	SARLIN, P. 32
72	SARLIN, P. 33
73	SARLIN, P. 34
74	SARLIN, P. 35
75	SARLIN, P. 36
76	SARLIN, P. 37
77	SARLIN, P. 38
78	SARLIN, P. 39
79	SARLIN, P. 40
80	SARLIN, P. 41
81	SARLIN, P. 42
82	SARLIN, P. 43
83	SARLIN, P. 44
84	SARLIN, P. 45
85	SARLIN, P. 46
86	SARLIN, P. 47
87	SARLIN, P. 48
88	SARLIN, P. 49
89	SARLIN, P. 50
90	SARLIN, P. 51
91	SARLIN, P. 52
92	SARLIN, P. 53
93	SARLIN, P. 54
94	SARLIN, P. 55
95	SARLIN, P. 56
96	SARLIN, P. 57
97	SARLIN, P. 58
98	SARLIN, P. 59
99	SARLIN, P. 60

NOTE

- The remote may not be able to control every model TV of the brands listed.
- Certain audio features of this product manufactured under a license from Desper Products, Inc. Spatializer® and circle-in-square device are trademarks owned by DesperProducts, Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories Inc. All rights reserved
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.
- VM Labs Legal Notices:
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- HDCD®, High Definition Compatible Digital® and Pacific Microsonics™ are either registered trademarks or trademarks of Pacific Microsonics, Inc. in the United States and/or other countries. HDCD system manufactured under license from Pacific Microsonics, Inc. This product is covered by one or more of the following: In the USA: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311, 5,872,531, and in Australia: 669114. Other patents pending.

Troubleshooting Guide

Before requesting service (troubleshooting)

Problem	Action	Page
No operations can be performed with remote.	<ul style="list-style-type: none">• Check the batteries in the remote. May need replacing.• Operate the remote control at a distance of no more than 20 feet.• Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again.	P6
Disc does not play.	<ul style="list-style-type: none">• Ensure that the disc is installed with the label side facing up.• Check the region number of the DVD.• This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.	P4
The  icon appears on screen.	<ul style="list-style-type: none">• The features or action cannot be completed at this time because:<ol style="list-style-type: none">1. The DVD's software restricts it.2. The DVD's software doesn't support the feature (e.g., angles).3. The feature is not available at the moment.4. You've requested a title or chapter number or search time that is out of range.	P28-30
Disc Menu doesn't appear.	<ul style="list-style-type: none">• Check if the disc has a Menu.	P14, 15
Playback mode differs from the Setup Menu selection.	<ul style="list-style-type: none">• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P16-20
The screen ratio cannot be changed.	<ul style="list-style-type: none">• The Screen Ratio is fixed on your DVDs.	P19
No audio	<ul style="list-style-type: none">• Make sure you have selected the correct Digital Output in the Audio Options Menu.	P18
Forgot password	<ul style="list-style-type: none">• Press power on from a cold start with no disc in the unit. Press the STOP and PLAY buttons simultaneously on the front panel for three seconds. "All setup values will be reset to factory settings. Your player will be shut off." will appear. Press the MENU button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press ENTER and the Password Check display will appear. Enter the default password of "9999". You can now set your rating level and change your password to a new number.	P20
Will not read disc or other error message	<ul style="list-style-type: none">• Turn the player off and unplug it to reset the DVD player. Wait approximately 2 minutes, plug the player back in and turn it on.	
If you experience other problems.	<ul style="list-style-type: none">• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again.• If the problem still cannot be solved, please contact your nearest authorized service center.	

Specifications

General	Power Requirements	AC 120 V, 60 Hz
	Power Consumption	15W
	Weight	6.2lbs
	Dimensions	16.9(W) x 9.4(D) x 3.1(H)/inch
	Operating Temperature Range	+41°F to +95°F
	Operating Humidity Range	10 % to 75 %
Disc	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 11.45 ft/sec Approx. Play Time (Single Sided, Single Layer Disc) : 135 min
	CD : 5" (COMPACT DISC)	Reading Speed : 3.9 to 4.6 ft/sec Maximum Play Time : 74 min
	CD : 3 1/2" (COMPACT DISC)	Reading Speed : 3.9 to 4.6 ft/sec Maximum Play Time : 20 min.
	VCD : 5"	Reading Speed : 3.9 to 4.6 ft/sec, Maximum Play Time : 74 min (Video + Audio)
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 load) Y : 1.0 Vp-p (75 load)
	Component Video	Pr : 0.70 Vp-p (75 load) Pb : 0.70 Vp-p (75 load)
	S-VIDEO	Luminance Signal : 1.0 Vp-p (75 load) Color Signal : 0.286 Vp-p (75 load)
Audio Output	2 Channel	(L, R)
	Output Level	Analog : 2 Vrms (1 kHz) Digital : 1.15 Vp-p
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	92 dB
	*Total Harmonic Distortion	0.003 % (in case of 1 KHz)

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

READ THIS NOTICE BEFORE YOU OR YOUR CHILD USE ANY VIDEO GAME

A very small portion of the population have a condition which may cause them to experience epileptic seizures or have momentary loss of consciousness when viewing certain kinds of flashing lights or patterns that are commonly present in our daily environment. These persons may experience seizures while watching some kinds of television pictures or playing certain video games. Players who have not had any previous seizures may nonetheless have an undetected epileptic condition.

If you or anyone in your family has experienced symptoms linked to an epileptic condition (e.g. a seizure or loss of awareness), immediately consult your physician before using any video games.

We recommend that parents observe their children while they play video games. If you or your child experience any of the following symptoms: dizziness, altered vision, eye or muscle twitching, involuntary movements, loss of awareness, disorientation, or convulsions, **DISCONTINUE USE IMMEDIATELY** and consult your physician. Please guide your children so that they do not eat the rubber-quality cover of the Game port.

FOLLOW THESE PRECAUTIONS WHENEVER USING VIDEO GAMES:

- When using your NUON Interactive DVD player, do not sit or stand too close to the television screen. Play as far back from the screen as possible.
- Play video games on the smallest available television screen.
- Do not play if you are tired or need sleep.
- Always play in a well lit room.
- Be sure to take a 10 to 15 minute break every hour while playing.

Repetitive Strain Warning

Some people may experience fatigue or discomfort after playing for a long time. Regardless of how you feel, you should **ALWAYS** take a 10 to 15 minute break every hour while playing. If your hands or arms become tired or uncomfortable while playing, stop and rest. If you continue to experience soreness or discomfort during or after play, listen to the signals your body is giving you. Stop playing and consult a doctor. Failure to do so could result in long term injury.

If your hands, wrist or arms have been injured or strained in other activities, use of your system could aggravate the condition. Before playing, consult a doctor.

Motion Sickness

Samsung Extra DVD players generate realistic images and 3-D simulations. While playing or watching certain video images, some people may experience dizziness, motion sickness or nausea. If you or your child experience any of these symptoms, discontinue use and play again later.

Projection Television Warning

DO NOT USE WITH A FRONT OR REAR PROJECTION TV

Do not use a front or rear projection television with your NUON Interactive DVD Player. Your projection television screen may be permanently damaged if video games with stationary scenes or patterns are played on your projection television. Similar damage may occur if you place a video game on hold or pause. If you use your projection television with NUON Interactive Software, neither VM Labs nor any of VM Labs' licensees will be liable for any damage. This situation is not caused by a defect in the DVD player or NUON games, other fixed or repetitive images may cause similar damage to a projection television. Please contact your TV manufacturer for further information.

Warranty (for USA users only)

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by SAMSUNG ELECTRONICS AMERICA, INC. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for the following limited warranty period:

One (1) Year Parts and Labor

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States, and does not include transportation, installation, removal or reinstallation. Warranty repairs must be performed by SAMSUNG's authorized service center. To receive warranty service, the original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge with new or reconditioned parts, if found to be defective during the limited warranty period specified above. The product must be returned during the warranty period with transportation charges prepaid to SAMSUNG's designated service center. Prior to returning any product for warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. SAMSUNG does not warrant uninterrupted or error-free operation of the product. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, noncommercial use of this product and shall not apply to the following, including, but not limited to: damage which occurs in shipment; applications and uses for which this product was not intended; failures or problems which are caused by products or equipment not supplied by SAMSUNG; accidents, misuse, abuse, neglect, misapplication, fire, water, lightning or other acts of nature; incorrect electrical line voltage, fluctuations or surges; damage caused by improper or faulty installation; improper connection with any peripheral; product alteration or modification; improper or unauthorized repair; cosmetic damage or exterior finish; product with altered serial numbers; failure to follow operating instructions, customer adjustments, maintenance and environmental instructions that are covered and prescribed in the instruction book; use of non-SAMSUNG or unauthorized parts, supplies, accessories or equipment which damage this product or result in service problems, failures or problems due to incompatibility with other equipment.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED AND DESCRIBED ABOVE, AND NO WARRANTIES WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AFTER THE EXPRESS WARRANTY PERIODS STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY GIVEN BY ANY PERSON, FIRM OR CORPORATION WITH RESPECT TO THIS PRODUCT SHALL BE BINDING ON SAMSUNG. SAMSUNG SHALL NOT BE LIABLE FOR LOSS OF REVENUE OR PROFITS, FAILURE TO REALIZE SAVINGS OR OTHER BENEFITS, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE, MISUSE OR INABILITY TO USE THIS PRODUCT,

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Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To obtain warranty service, please contact SAMSUNG at:

SAMSUNG ELECTRONICS AMERICA, INC. - CONSUMER ELECTRONICS CUSTOMER SERVICE
400 Valley Road, Suite 201, Mt Arlington, NJ 07856
1-800-SAMSUNG (1-800-726-7864)
www.samsungsupport.com

Warranty (for Canada users only)

LIMITED WARRANTY TO ORIGINAL PURCHASER

Samsung Electronics Canada Inc.(SECA), warrants that this product is free from defective material and workmanship.

SECA further warrants that if this product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective materials, SECA will repair or replace the product at its option.

All warranty repairs must be performed by a SECA Authorized Service Center. (The name and address of the location nearest you can be obtained by calling toll free: 1- 800- SAM-SUNG)

<u>LABOR</u>
One year (Carry- in)

<u>PARTS</u>
One year

On carry-in models, transportation to and from the service center is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase. It must be presented to the authorized service center at the time service is requested.

EXCLUSIONS (WHAT IS NOT COVERED)

This warranty does not cover damage due to accident, fire, flood and/ or other acts of God, misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use or damage that occurs in shipping. Exterior and interior finish, lamps, glass are not covered under this warranty. Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty. This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased and used in Canada.

Memo



ELECTRONICS

SAMSUNG ELECTRONICS AMERICA INC.
105 CHALLENGER ROAD, RIDGEFIELD PARK,
NJ 07660 U.S.A.

US

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AH66-00856C